

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **56-048413**

(43)Date of publication of application : **01.05.1981**

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(51)Int.CI. **E02B 3/04**

// **E02D 5/02**

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(21)Application number : **54-123129**

(71)Applicant : **PENTA OCEAN CONSTR CO LTD**

(22)Date of filing : **27.09.1979**

(72)Inventor : **HIRATA MASAAKI  
INOUE KAZUSHI**

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## **(54) HARBOR STRUCTURE SUCH AS QUAY WALL ON A CEMENT BLENDED FOUNDATION AND CONSTRUCTION METHOD THEREOF**

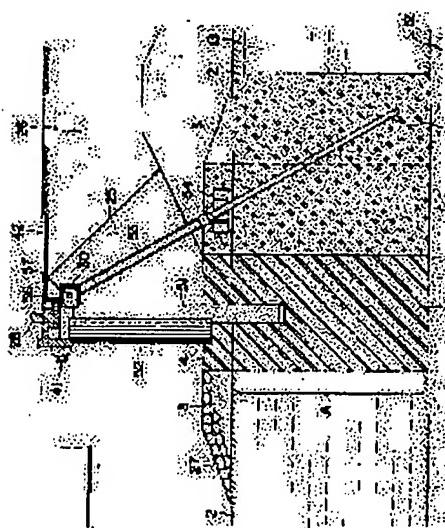
(57)Abstract:

**PURPOSE:** To eliminate waste from both the lower structure and the upper structure structural-dynamically by a method wherein a half cellular steel structural material is entirely, directly connected to a soil cement retaining wall to form an one body structure.

**CONSTITUTION:** Laying sand 3 is laid evenyl on the sea bottom 2. Next, a hardened soil cement column body A is molded in the sea bottom by means of a disposing ship. Multi-king posts 51 are erected into this soil cement column body A by means of a pile hammering ship. And further, for the cement column body A, a skew rope steel material 53 is fitted to a king post hanger 56 with a hinge. At this time, a skew rope steel tube pile 55 of the lower skew rope extension part has been already positioned through the taper hole of a skew rope steel material bed plate 54. Two shew rope tube piles 55 are hammered by means of a pile hammering ship to complete a series of the skew rope steel material laying operation. On the other hand, on land, a tentative

assembly of a flat steel plate 52 is performed and it is lowered into the laying channel excavated in a solid wall body 22, and further, it is filled with under water cncrete, and then, the root part of a flat steel sheet pile is fixed sufficiently in the wall body 22 to finish the construction of the principal part.

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**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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